



DECLARATION OF DR. THOMAS OAKES

1. My name is Dr. Thomas W. Oakes. I reside at 10303 Centinella Drive, La Mesa, California, 91941.
2. I am the inventor of the "System and Method for Generating Hydrogen Gas Using Renewable Energy" (the "Hydrogen Generator"), for which U.S. Patent Application number 10/785,234 was filed on February 24, 2004. This U.S. Patent application was preceded by a formal Disclosure application # 1529415 to the U.S. Patent & Trademark Office, dated April 8, 2003.
3. I received my doctorate degree from The University of Utah in the field of Medical Sociology. I have a masters degree from Brigham Young University in the field of Personnel and Guidance. I also have a bachelors of science degree from Brigham Young University in the field of Psychology.
4. I was an Assistant Professor of Sociology at Northern Arizona University from 1974 to 1978.
5. I have made several working models of my Hydrogen Generator since April 8, 2003. I have used both cation and anion membranes in the various models.
6. Since about 2008 I have settled on Nafion for the membrane in my models.
7. In early 2008, I built two models of my Hydrogen Generator, each having a surface are of about $\frac{1}{2}$ square meter. These two models used Nafion as the membrane, and a water-acid solution as electrolyte. I tested these units for a few months.
8. At the conclusion of testing, the water level on the cathode side was different from the water level on the anode side, due to the electrolysis of the water. After testing, I left the two models with this uneven water level, and set them both aside in my storage facility.
9. From early 2008 to July 2011 these two models remained filled with electrolyte and ready for operation, but were not used.
10. In July 2011, I retrieved these two models of the Hydrogen Generator from my storage. I was surprised to see that the water levels remained uneven for both models, and had not equalized between the cathode side and the anode side. I had expected the water level to equalize as the data sheet for Nafion indicated that it was highly permeable to water.

11. All statements made of my own knowledge are true and that all statements made on information and belief are believed to be true. I understand and acknowledge that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. 1001) and may jeopardize the validity of the application or any patent issuing thereon.

A handwritten signature in black ink, reading "Thomas W. Oakes". The signature is written in a cursive style with a large, stylized 'T' and 'O'.

Dr. Thomas W. Oakes

Sept. 24, 2011